

**Notice of Allowability**

Application No.

09/506,717

Examiner

Eric S. DeJong

Applicant(s)

HELSON, HAROLD E

Art Unit

1631

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to applicant's response filed 03/16/2007.
2. ☒ The allowed claim(s) is/are 5,6,8-16,19-21,28 and 29.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some\* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO/SB/08),  
Paper No./Mail Date 03/16/2007
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413),  
Paper No./Mail Date \_\_\_\_\_
7. ☒ Examiner's Amendment/Comment
8. ☐ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_

EDJ

*EDJ*  
*06/22/2007*

### **EXAMINER'S AMENDMENT**

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mary J. Edwards on 12 June 2007.

The application has been amended as follows:

In line 11 of claim 5, following the phrase "fixed bond representation" the term --candidates-- has been inserted.

In line 14 of claim 5, following the phrase "fixed bond information" insert the phrase --to an output device--.

In line 7 of claim 9, following the phrase "the path to the last" the term "selection" has been deleted and the term --assignment-- has been inserted therefor.

In line 10 of claim 9, following the phrase "fixed bond representation" the term --candidates-- has been inserted.

In line 15 of claim 9, following the phrase "fixed bond representation" insert the phrase --to an output device--.

In line 7 of claim 10, following the phrase "the path to the last" the term "selection" has been deleted and the term --assignment-- has been inserted therefor.

In line 15 of claim 10, following the phrase "fixed bond representation" insert the phrase --to an output device--.

In line 7 of claim 12, following the phrase "the path to the last" the term "selection" has been deleted and the term --assignment-- has been inserted therefor.

In line 16 of claim 12, following the phrase "fixed bond information" insert the phrase --to an output device--.

In line 6 of claim 20, following the phrase "based on valence information" the phrase --and based on tracing a path through the structure, assigning bond orders and atomic charges or radicals as the path is traced, and, when an unacceptable state is detected, backtracking the path to the last assignment that was made-- has been inserted.

In line 12 of claim 20, following the phrase "configured to produce" the phrase --and output-- has been inserted.

In line 13 of claim 20, the punctuation mark ";" has been deleted.

In line 14 of claim 20, the phrase "said produced fixed bond information being output by the system" has been deleted.

In line 9 of claim 21, following the phrase "the path to the last" the term "selection" has been deleted and the term --assignment-- has been inserted therefor.

In line 15 of claim 21, the term "outputting" has been deleted and the term --output-- has been inserted therefor.

In line 15 of claim 21, following the phrase "fixed bond information" the phrase --to an output device-- has been inserted.

### ***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Eric S. DeJong whose telephone number is (571) 272-6099. The examiner can normally be reached on 8:30AM-5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Shukla Ram can be reached on (571) 272-0735. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a

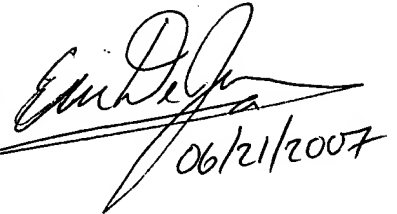
Application/Control Number: 09/506,717

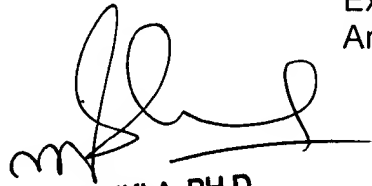
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USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Eric S DeJong  
Examiner  
Art Unit 1631

  
06/21/2007

  
RAM R. SHUKLA, PH.D.  
SUPERVISORY PATENT EXAMINER